

Recommendation 14-3R4

USE OF THE 8025-8400 MHz BAND BY EARTH EXPLORATION SATELLITES

The SFCG,

CONSIDERING

- a) that Earth Exploration Satellites (EES) are an increasingly important tool for acquiring information about the Earth and its environment;
- b) that the 8025-8400 MHz band is allocated to the EES service on a primary basis;
- c) that the band 8025-8400 MHz is shared with the fixed, mobile and fixed-satellite (Earth-to-space) services and the band 8175-8215 MHz is also shared with the meteorological satellite (Earth-to-space) service;
- d) that use of the band by EES operated by both commercial interests and space agencies is increasing and could result in harmful interference among EES systems;
- e) that Earth-based, deep space research receivers operated in the adjacent 8400-8450 MHz band are extremely sensitive and highly susceptible to interference;
- f) that time-critical events occur in both deep space research and EES operations,
- g) that guidelines for use of the band are desirable to maximize the capacity of the band and to minimize harmful interference;

RECOMMENDS

- 1. that transmitters on Earth Exploration Satellites radiate only when transmitting data to one or more Earth stations;
- 2. that consultations be effected if unwanted emissions from an Earth Exploration Satellite exceed the deep space interference criterion of -220.9 dBW/Hz into a deep space receiver in the band 8400-8450 MHz.